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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/815,106	03/31/2004	Yuichi Ichikawa	9683/182	6587
757 7590 02/05/2008 BRINKS HOFER GILSON & LIONE			EXAMINER	
P.O. BOX 10395 CHICAGO, IL 60610			CHEN, SHIN HON .	
CHICAGO, IL	00010		ART UNIT	PAPER NUMBER
		·	2131	
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			02/05/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/815,106	ICHIKAWA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Shin-Hon Chen	2131				
The MAILING DATE of this communication appeariod for Reply	pears on the cover sheet w	rith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	NATE OF THIS COMMUN 136(a). In no event, however, may a will apply and will expire SIX (6) MO e, cause the application to become A	CATION. reply be timely filed  NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 19 N	lovember 2007.					
	s action is non-final.					
3) Since this application is in condition for allowa		ters, prosecution as to the merits is				
closed in accordance with the practice under	•	•				
	, , , , , , , , , , , , , , , , , , ,	·				
Disposition of Claims						
	4) Claim(s) 1-21 is/are pending in the application.					
4a) Of the above claim(s) is/are withdra	iwn from consideration.					
5) Claim(s) is/are allowed.						
· · · · · · · · · · · · · · · · · · ·	Claim(s) <u>1-21</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on 31 March 2004 is/are:	a)⊠ accepted or b)□ ob	jected to by the Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	tion is required if the drawing	g(s) is objected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the E	•					
Priority under 35 U.S.C. § 119	•					
		0.440( ) ( )) ( )				
12) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documen						
2. Certified copies of the priority documen						
3. Copies of the certified copies of the price	•	n received in this National Stage				
application from the International Burea	, , , , , , , , , , , , , , , , , , , ,					
* See the attached detailed Office action for a list	t of the certified copies no	t received.				
		·				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) 🗍 Interview	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Other:	Informal Patent Application				
Paper No(s)/Mail Date <u>9/28/07</u> .  S. Patent and Trademark Office		·				

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## **DETAILED ACTION**

1. Claims 1-21 have been examined.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over MasRibes European Patent Application EP1132796 (hereinafter MR) in view of Wildish et al. U.S. Pub. No. 20030212888 (hereinafter Wildish).
- 4. As per claim 1 and 10-12, MR discloses a communication device comprising: an executing unit to execute software (MR:[0019]); a memory configured to store permission data, the permission data indicating permissible behavior for an application, the application being a group of functions provided by execution of the software (MR: [0020]: RRL certificate); a checking unit configured to check, before the software is executed, whether the permission data are valid; and an execution control unit configured to permit the executing unit to execute the software when, on the basis of a result of the check carried out by the checking unit, the permission data are determined to be valid, and for not permitting said executing unit to execute the software when, on the basis of the result of the check executed by said checking unit, the permission data are determined to be invalid (MR: [0021]: check if the certificate is still valid).

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MR does not explicitly disclose accessing an external device to verify whether the permission data is still valid. However, Wildish discloses checking Certificate Revocation List periodically to determine whether the certificate has been revoked prior to expiration time indicated in the certificate (Wildish: [0010]). It would have been obvious to one having ordinary skill in the art to verify the status of the permission data prior to execution of the software by checking with certificate distribution center because it provides certificate revocation list as well known in the art. Therefore, it would have been obvious to one having ordinary skill in the art at the time of applicant's invention to combine the teachings of Wildish within the system of MR because it validates the certificate prior to the expiration.

- 5. As per claim 2, MR as modified discloses the device of claim 1. MR as modified further discloses a determining unit configured to determine whether it is necessary to carry out the check by the checking unit, the checking unit either carrying out or not carrying out the check on the basis of a determination made by the determining unit (Wildish: [0046]).
- 6. As per claim 3, MR as modified discloses the device of claim 2. MR as modified further discloses wherein, said determining unit comprises: a counting unit configured to count a number of executions of the software; and a frequency data memory configured to store frequency data indicating how frequently it is necessary to carry out the check; and wherein, said determining unit determines, on the basis of a number of executions of the software, as counted by said counting means, and on the basis of the frequency data stored in said frequency data storing means, whether it is necessary to carry out a check by said checking means (Wildish: [0046]). It

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would have been an obvious matter of design choice to establish the frequency of the certificate

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verification process.

7. As per claim 4, MR as modified discloses the device of claim 2. MR as modified further discloses wherein, said determining means comprises: a timer means for providing time data indicating a present time; and a time interval data storing means for storing time interval data indicating a time interval at which it is necessary to carry out the check; and wherein, said determining means calculates, on the basis of time data provided by said timer, a time period between a present time and a time recorded at a most recent execution of the software, and determines whether it is necessary to carry out the check by said checking means on the basis of the calculated time period and the time interval data stored in said time interval data storing

means (Wildish: [0046]). Same rationale applies here as above in rejecting claim 3.

8. As per claim 5, MR as modified discloses the device of claim 1. MR as modified further discloses wherein: said communication device further comprises count data storing means for storing count data indicating a count of times that the software is allowed to be executed in a condition that said checking means is unable to make the check; and said execution control means permits said executing means to execute the software in a condition that said checking means is unable to make the check up to a number of times which is indicated by the count data stored in said count data storing means (Wildish: [0010]; [0046]). Same rationale applies here as above in rejecting claim 3.

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9. As per claim 6, MR as modified discloses the device of claim 1. MR as modified further

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discloses an updating means for obtaining update data from said external device, and updating

the permission data stored in said permission data storing means on the basis of the update data

(MR: [0010]: update on the status of the certificate).

10. As per claim 7, MR as modified discloses the device of claim 6. MR as modified further

discloses wherein: said updating means transmits, to said external device, update timing data

indicating a timing of a most recent update of the permission data stored in said permission data

storing means, when said checking means makes the check; receives update data transmitted

from said external device in response to the transmission of the update timing data; and updates

the permission data stored in said permission data storing means on the basis of the update data

(Wildish: [0046]). Same rationale applies here as above in rejecting claim 3.

11. As per claim 8, MR as modified discloses the device of claim 1. MR as modified further

discloses a terminating means for instructing said executing means to terminate execution of the

software when the application attempts to conduct behavior which the application is not

permitted to conduct (MR: [0028]: execute only when the certificate is valid).

12. As per claim 9, MR as modified discloses the device of claim 1. MR as modified further

discloses wherein: the permission data contain information on usage of at least one of an internal

hardware resource of said communication device, an external hardware resource of said

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communication device, a software resource and a communication network resource (MR: [0019]:

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RRL).

13. As per claim 13, MR as modified discloses a device according to claim 1. MR as

modified further discloses wherein the application comprises a Java application (MR: [0030]:

Java Programs); and wherein the permission data comprises a scope of rights which are granted

to the Java application (MR: [0021] lines 7-11: the validity period indicate the period which is

rights are granted to the application).

14. As per claim 14-18, MR as modified discloses the device according to claim 1. MR as

modified further discloses wherein the permission data indicates that the application is allowed

to access required information (MR: [0021] lines 7-11: the validity period of the certificate

determines whether the resources are accessible according the period specified).

15. As per claim 19-21, MR as modified discloses the method according to claim 10. MR as

modified further discloses wherein the permission data indicates that the application is allowed

to access required information (MR: [0021] lines 7-11: the validity period of the certificate

determines whether the resources are accessible according the period specified).

Response to Arguments

16. Applicant's arguments filed 11/19/07 have been fully considered but they are not

persuasive.

Regarding applicant's remarks, applicant argues that the RRL is the data stating required resources, not permission data. However, the examiner has indicated that the permission data is the RRL certificate and the certificate is used for security reasons (MR: [0020] line 4: security reason). In the RRL certificate, the certificate indicates a validity period, which is used to determine validity of the certificate and determine whether the mobile code can still be executed (MR: [0021] lines 7-11). Therefore, applicant has misinterpreted the RRL to be permission data while the examiner indicated that the RRL certificate, with the validity period, to be the permission data used for security purposes.

## Conclusion

17. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Skibbie et al. U.S. Pat. No. 6910128 discloses a method for processing a signed applet by verifying the certificates associated with JAR files.

Lin et al. U.S. Pat. No. 6766353 discloses method for authenticating a java archive for portable devices that includes developer's certificate to be validated.

Hope et al. U.S. Pub. No. 20030079125 discloses method for electronic certificate revocation.

Heddings et al. U.S. Pat. No. 6993665 discloses applet permissions manager.

Shrader et al. U.S. Pat. No. 6526513 discloses architecture for dynamic permissions in Java.

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18. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shin-Hon Chen whose telephone number is (571) 272-3789. The examiner can normally be reached on Monday through Friday 8:30am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Shin-Hon Chen Examiner Art Unit 2131

SC

PRIMARY EXAMINER